1.27mm Pitch
Connectors

PCR series
1.27 mm Pitch Connectors

Outline

PCR series provides bellows-contact type high-density connectors, which can support a wide variety of applications. The PCR is a sister series of PCS series connectors, since accessories such as backshell and termination tool can be shared between the PCR and PCS series.

Features

- Board-to-cable connectors provide a wide variety of contacts, 20 - 96 contacts.
- EMI-filtered design meets FCC and other standards.
- Board-to-board connectors also provide a wide variety of contacts, 20 - 128 contacts.
- Allows live wire connections for power terminals and signal terminals in three stages.
- Backshell with mating guide for preventing short circuit allows parallel mating.
- Best suited for parallel, horizontal, or vertical-stacked connections.

Principal Applications

Office automation equipment, instrumentation equipment, communications equipment, factory automation, etc.
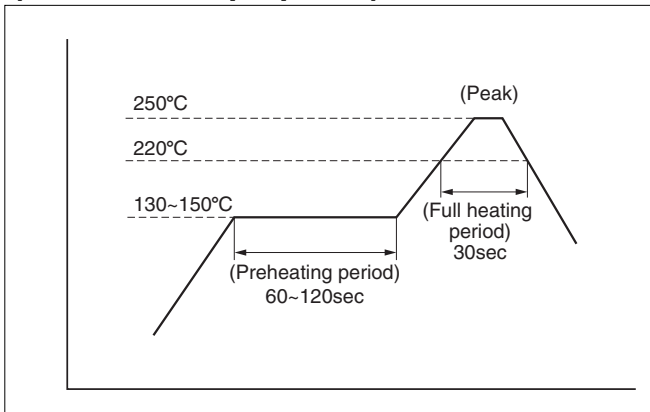
Electrical Characteristics

	Board-to-board connector	Board-to-cable connector
Rated voltage	250V AC (r.m.s.)	250V AC (r.m.s.)
Rated current	1 A	1 A
Insulation resistance	Over 1000 megohms at 500V DC	Over 1000 megohms at 250V DC
Dielectric withstanding voltage	750V AC (r.m.s.) for up to one minute	500V AC (r.m.s.) for up to one minute
Contact resistance	35 milliohms or less	35 milliohms or less

Reflow temperature profile
(for reference purposes)

```
250°C  --------------------------  (Peak)
220°C  ----------------------/\----

130~150°C  _____        | (Full heating
                    |  |       |  period)
                    |  |       |  30sec
             (Preheating period)
               60~120sec
```
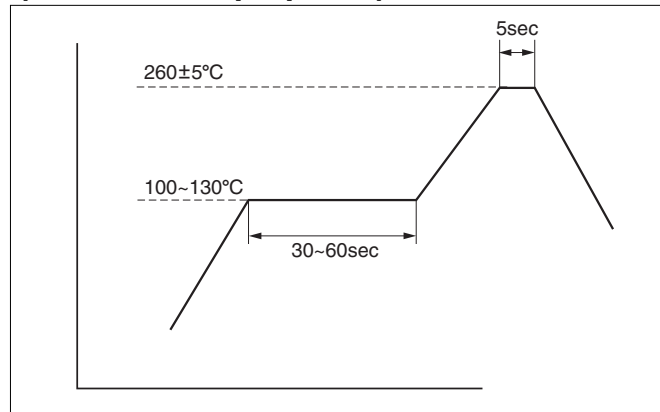
The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow temperature profile.

●**Applicable products**

PCR-E(　)MY+

PCR-E(　)MY-SLT

Flow temperature profile
(for reference purposes)

```
                                  5sec
                                 |<->|
260±5°C  ------------------------/---\

100~130°C  _____
                   |  |
                   |  |
                   30~60sec
```

The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.
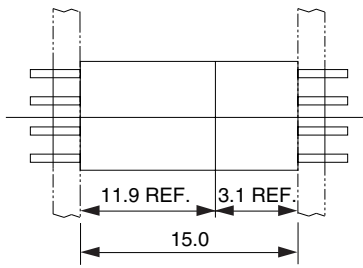
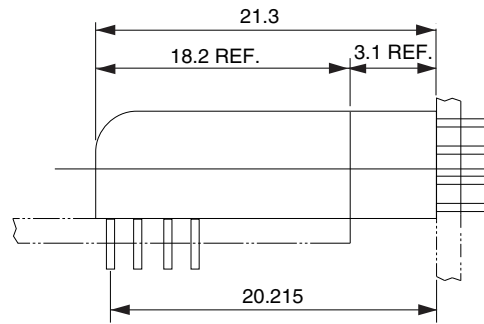●**Applicable products**

PCR series through hole type connector

Dimensions in combination of various connectors for reference purposes

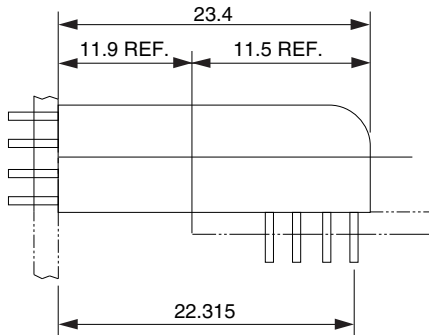**Board-to-board connector dimensions for reference purposes**
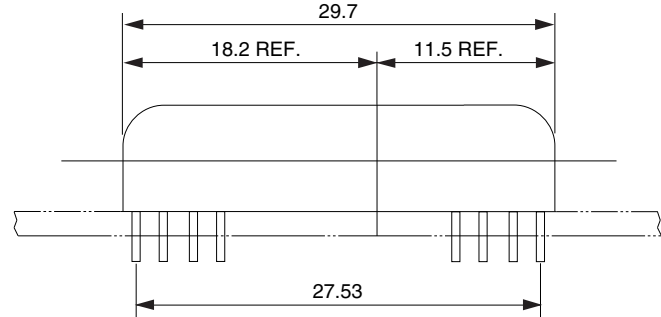
PCR-( )MD( )+ ←→ PCR-( )FD( )+

11.9 REF. 3.1 REF.
15.0

PCR-( )LMD( )+ ←→ PCR-( )FD( )+

21.3
18.2 REF.   3.1 REF.
20.215

PCR-( )MD( )+ ←→ PCR-( )LFD( )+

23.4
11.9 REF.   11.5 REF.
22.315

PCR-( )LMD( )+ ←→ PCR-( )LFD( )+

29.7
18.2 REF.   11.5 REF.
27.53

Board-to-cable connector dimensions for reference purposes

10 MIN.

C
B
D
t
A

Edge of PCB
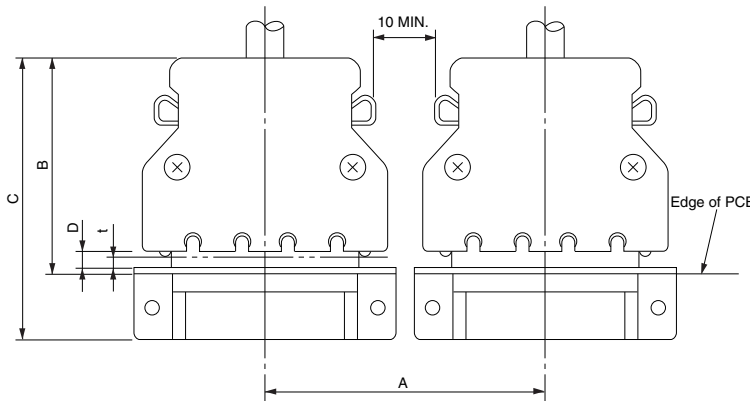
PCB-side Connectors: For PCR-E ( ) LMD+

Number of contacts	A	B	C	D	t
20	35 or more				
28	40 or more				
36	45.1 or more	36 or more	46.8 or more	2.7	Thickness of panel
50	54 or more				t = 1.6 MAX.
68	65.4 or more				
96	83.2 or more	41 or more	51.8 or more	3.7	

Panel mounting-hole dimensions for reference purposes

R1.4
7.5
2.8
B
A
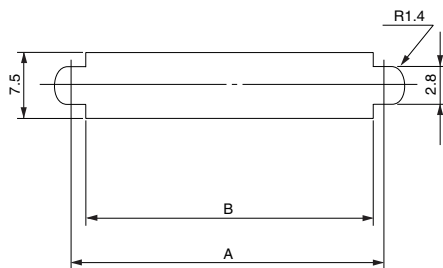
Number of contacts	A	B
20	27.40	23.8
28	32.48	28.9
36	37.56	34.0
50	46.45	42.9
68	57.88	54.6
96	75.66	72.1

Product List

Right-angle through hole type female connector for PCB
PCR-( )LFD( )+

B-78
PCR series...6
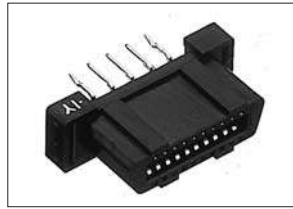
Straight through hole type female connector for PCB
PCR-( )FD( )+

B-79
PCR series...7

Right-angle through hole type male connector for PCB
PCR-( )LMD( )+

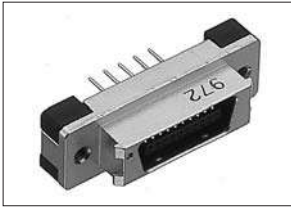**B-80**
PCR series...8

Straight through hole type male connector for PCB
PCR-( )MD( )+
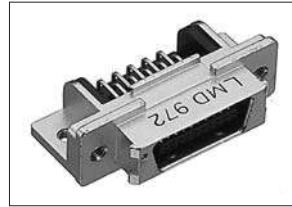
B-81
PCR series...9

Straight through hole type male connector for PCB
PCR-E( )MD+

B-82
PCR series...10

Straight through hole type male connector for PCB (with screw lock)
PCR-E( )MD-SL+

B-83
PCR series...11

Right-angle through hole type male connector for PCB
PCR-E( )LMD( )+

B-84
PCR series...12
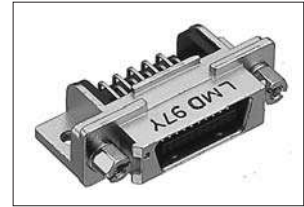
Right-angle through hole type male connector for PCB (with screw lock)
PCR-E( )LMD-SL+

B-85
PCR series...13

Cable-side IDC type female connector
PCR-E( )F( )+

B-86
PCR series...14

Cable-side soldering type female connector
PCR-E( )FS+

B-87
PCR series...15

Cable-side IDC type male connector for mounting on a panel
PCR-E( )PM( )

B-88
PCR series...16
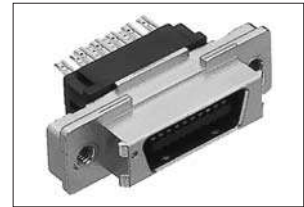
Cable-side soldering type male connector for mounting on a panel
PCR-E( )PMRS+

B-89
PCR series...17

Straight SMT type male connector for PCB
PCR-E( )MY+

B-91
PCR series...19

Straight SMT type male connector for PCB (with screw lock)
PCR-E( )MY-SL+

B-92
PCR series...20

Right-angle SMT type male connector for PCB
PCR-E( )LMY+

B-93
PCR series...21

Right-angle SMT type male connector for PCB (with screw lock)
PCR-E( )LMY-SL+

B-94
PCR series...22

Cable-side soldering type female connector
PCR-S( )FS+

B-95
PCR series...23

Vertical type plastic backshell for cable extension
PCR-S( )PMLA2+S

B-96
PCR series...24

Vertical type plastic backshell (without screw lock)
PCR-V20L( )

B-97
PCR series...25

**Vertical type plastic backshell
(with screw lock)
PCR-LS(　)LA(　)**

B-98
PCR series...26

**Vertical type plastic backshell
(without screw lock)
PCR-S20LA**

B-99
PCR series...27

Right-angle through hole type female connector for PCB
PCR-( )LFD( )+

1.27 mm pitch connector

For PCB

Right-angle Through hole

RoHS

● **Configuration of product Part No.**

PCR- ( ) LFD ( )+
  ①　　②　③　　④

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
　LFD: Right-angle through hole type, female
④ Board lock
　K: With kink formed contacts
　T: With board lock pins

PCR-( )LFDK+

for 20, 48, 68, 80 or 96-contact connectors.

Recommended PCB layout

POS.#1
Reference pin

4 kink-formed contacts

POS.#1
Reference pin

for 20, 48, 68, 80, 96 or 128-contact connectors.

PCR-( )LFDT+

for 20, 48, 68, 80 or 96-contact connectors.

Recommended PCB layout

POS.#1
Reference pin

POS.#1
Reference pin

● **Components**

①	Insulator
②	Female contacts
③	Bracket
④	Board lock pins

for 20, 48, 68, 80, 96 or 128-contact connectors.

● **Dimensions**

Part No.	A	B	C	D	E
PCR-20LFD(　)+	22.74	13.34	11.43	17.94	20.32
PCR-34LFD(　)+	31.63	22.23	20.32	26.83	29.21
PCR-48LFD(　)+	40.52	31.12	29.21	35.72	38.10
PCR-68LFD(　)+	53.22	43.82	41.91	48.42	50.80
* PCR-80LFD(　)+	60.84	51.44	49.53	56.04	58.42
PCR-96LFD(　)+	71.00	61.60	59.69	66.20	68.58
* PCR-128LFD(　)+	91.32	81.92	80.01	86.52	88.90

*Note: PCR-80LFDK+ or PCR-128LFDT+ products are under consideration.

Mating connectors: PCR-( )MD( )+, PCR-( )LMD( )+

Through hole	SMT	Press-in	IDC	Soldering	Crimping	Wire wrapping	Others

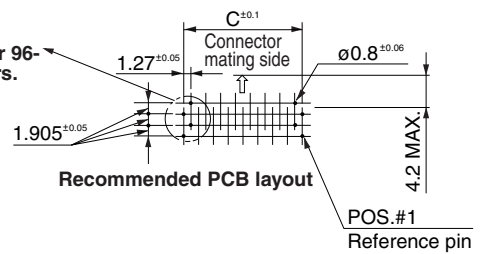# Straight through hole type female connector for PCB
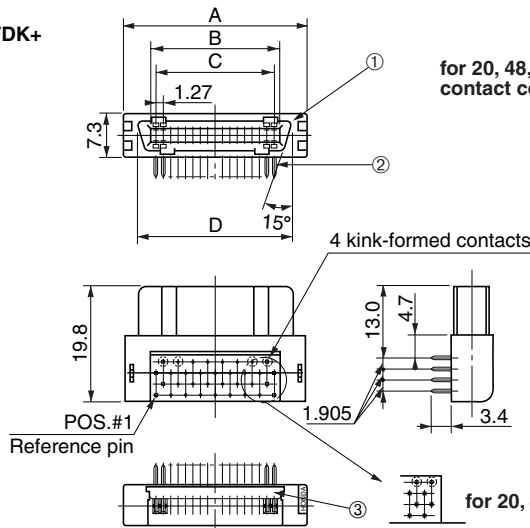# PCR-( )FD( )+

RoHS

● **Configuration of product Part No.**

PCR- ( ) FD ( )+
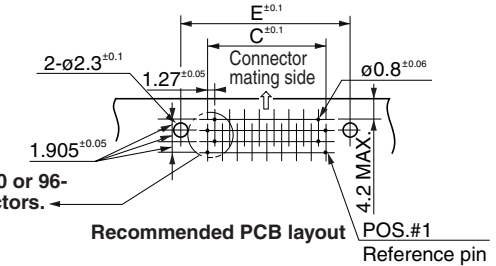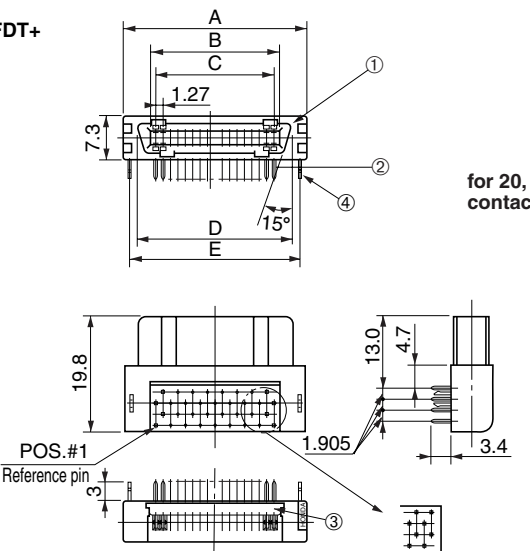　　　① 　② ③ 　④

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
　 FD: Straight through hole type, female
④ Board lock
　 K: With kink-formed
　 T: With board lock pins contacts

PCR-( )FDK+

A
B
C
1.27
7.3
15°
D
11.4
1.5
①
②
3.4
1.905

4 kink-formed contacts

POS.#1
Reference pin

POS.#1
Reference pin
1.27±0.05
C±0.1
ø0.8±0.06
1.905±0.05
for 20, 40, 48, 68, 80, 96 or 128-contact connectors.
Recommended PCB layout

for 20, 48, 68, 80, 96 or 128-contact connectors.

PCR-( )FDT+

A
B
C
1.27
7.3
15°
D
11.4
1.5
①
③
②
E
3.4
1.905

POS.#1
Reference pin

E±0.1
C±0.1
POS.#1
Reference pin
1.27±0.05
ø0.8±0.06
1.905±0.05
for 20, 40, 48, 68, 80, 96 or 128-contact connectors.
Recommended PCB layout
2-ø2.3±0.1

POS.#1
Reference pin
for 20, 48, 68, 80, 96 or 128-contact connectors.

● **Components**

①	Insulator
②	Contacts
③	Board lock pins

● **Dimensions**

Part No.	A	B	C	D	E
PCR-20FD( )+	22.74	13.34	11.43	17.94	20.32
PCR-34FD( )+	31.63	22.23	20.32	26.83	29.21
PCR-48FD( )+	40.52	31.12	29.21	35.72	38.10
PCR-68FD( )+	53.22	43.82	41.91	48.42	50.80
* PCR-80FD( )+	60.84	51.44	49.53	56.04	58.42
PCR-96FD( )+	71.00	61.60	59.69	66.20	68.58
PCR-128FD( )+	91.32	81.92	80.01	86.52	88.90

*Note: These products are under consideration.

Mating connectors: PCR-( )MD( )+, PCR-( )LMD( )+

Others	Wire wrapping	Crimping	Soldering	IDC	Press-in	SMT	Through hole

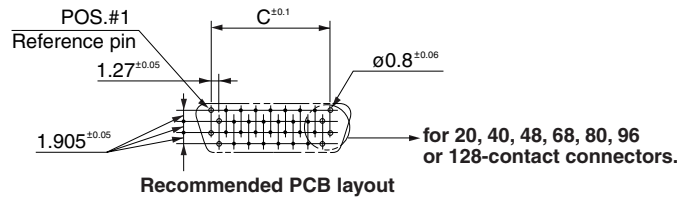# Right-angle through hole type male connector for PCB
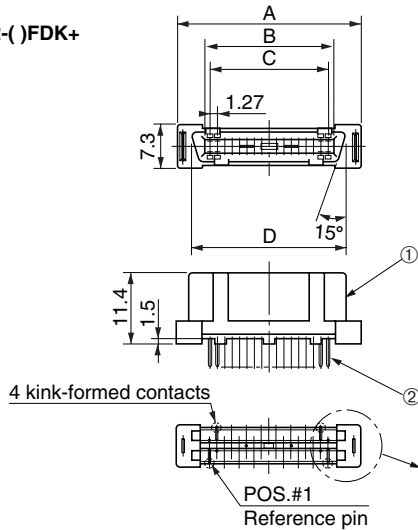## PCR-( )LMD( )+

RoHS

● **Configuration of product Part No.**

PCR- ( ) LMD ( )+
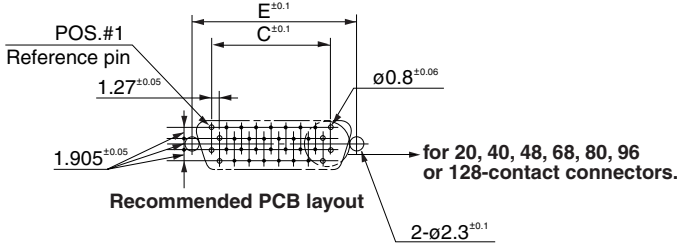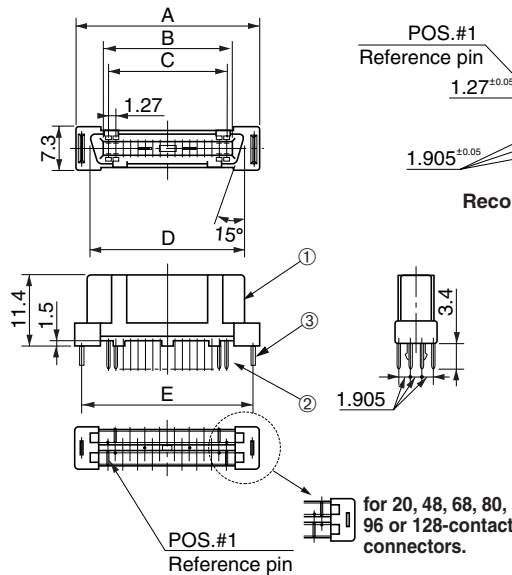　　　① 　② 　③ 　④

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
　 LMD: Right-angle through hole type, male
④ Board lock
　 K: With kink formed contacts
　 T: With board lock pins

PCR-( )LMDK+

4 kink-formed contacts

for 20, 48, 68, 80, 96
or 128-contact connectors.

POS.#1
Reference pin
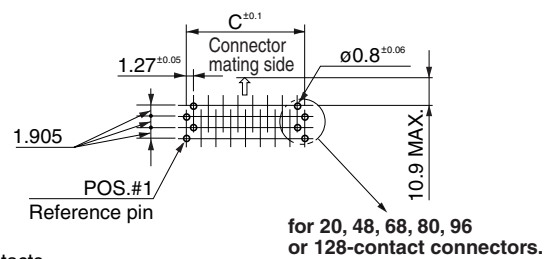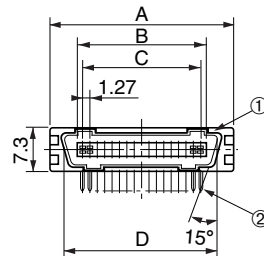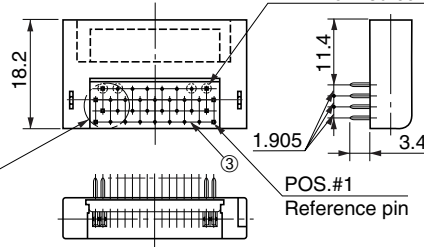
C±0.1
Connector mating side
1.27±0.05
ø0.8±0.06
1.905
10.9 MAX.
POS.#1
Reference pin
for 20, 48, 68, 80, 96 or 128-contact connectors.
Recommended PCB layout

PCR-( )LMDT+

for 20, 48, 68, 80, 96
or 128-contact connectors.

● **Components**

①	Insulator
②	contacts
③	Bracket
④	Board lock pins

E±0.1
C±0.1
2-ø2.3±0.1
1.27±0.05
Connector mating side
ø0.8±0.06
1.905±0.05
10.9 MAX.
POS.#1
Reference pin
for 20, 48, 68, 80, 96 or 128-contact connectors.
Recommended PCB layout

● **Dimensions**

Part No.	A	B	C	D	E
PCR-20LMD( )+	22.74	13.14	11.43	18.14	20.32
PCR-34LMD( )+	31.63	22.03	20.32	27.03	29.21
*2 PCR-48LMD( )+	40.52	30.92	29.21	35.92	38.10
PCR-68LMD( )+	53.22	43.62	41.91	48.62	50.80
*1 PCR-80LMD( )+	60.84	51.24	49.53	56.24	58.42
PCR-96LMD( )+	71.00	61.40	59.69	66.40	68.58
*2 PCR-128LMD( )+	91.32	81.72	80.01	86.72	88.90

*Note 1: These products are under consideration.
*Note 2: PCR-48LMDT+ or PCR-128LMDT+ products are under consideration.

Mating connectors: PCR-( )FD( )+, PCR-( )LFD( )+

| Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others |

1.27 mm pitch connector

For PCB

Straight through hole type male connector for PCB
PCR-( )MD( )+

Straight Through hole

RoHS

● **Configuration of product Part No.**

$$\underline{PCR-}\ \underline{(\ )}\ \underline{MD}\ \underline{(\ )}+$$
　　　①　　②　　③　　④

① Series name
② No. of contacts: 20, 34, 48, 68, 80, 96 or 128
③ Type of connector
　 MD: Straight through hole type, male
④ Board lock
　 K: With kink-formed contacts

for 20, 48, 68, 80, 96
or 128-contact connectors.

ø0.8$^{±0.06}$

1.27$^{±0.05}$

C$^{±0.1}$

POS.#1
Reference pin

1.905$^{±0.05}$

Recommended PCB layout

A
B
C
1.27
7.3
15°
D

11.9
1.5
3.4
①
②
1.905

4 kink-formed contacts

POS.#1
Reference pin

for 20, 48, 68, 80, 96 or 128-contact connectors.

● **Components**

①	Insulator
②	Male contacts

● **Dimensions**

Part No.	A	B	C	D
PCR-20MD(　)+	22.74	13.14	11.43	18.14
PCR-34MD(　)+	31.63	22.03	20.32	27.03
PCR-48MD(　)+	40.52	30.92	29.21	35.92
PCR-68MD(　)+	53.22	43.62	41.91	48.62
* PCR-80MD(　)+	60.84	51.24	49.53	56.24
PCR-96MD(　)+	71.00	61.40	59.69	66.40
PCR-128MD(　)+	91.32	81.72	80.01	86.72

*Note: These products are under consideration.

Mating connectors: PCR-( )FD( )+, PCR-( )LFD( )+

Others	Wire wrapping	Crimping	Soldering	IDC	Press-in	SMT	Through hole

1.27 mm pitch connector

Straight through hole type male connector for PCB
PCR-E( )MD+

For PCB

Straight Through hole

RoHS

EMI-filtered

● **Configuration of product Part No.**

$$PCR\text{-}E \underset{①}{(\ )} \underset{②}{MD\text{+}}_{③}$$

① Series name
② No. of contacts: 20, 28, 36, 50, 68, 80 or 96
③ Type of connector
   MD: Straight through hole type, male

2-M2.5

1.27

10.5

15°

0.85   F   0.85

5.4
3.9
11
1.5

1.27

D

7.1

□0.4

3.4

1.905

G

4.5

POS.#1   POS.#2

H

Except 50-contact connector

POS.#1
Reference pin
POS.#2

2-ø2.8±0.1

ø0.8±0.06

1.27±0.05

D±0.1

B±0.1

1.905±0.05

Except 50-contact connector

Recommended PCB layout

● **Components**

①	Contacts
②	Insulator
③	Shell

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H
PCR-E20MD+	33.40	27.40	13.20	11.43	16.45	21.60	20.43	22.43
PCR-E28MD+	38.48	32.48	18.28	16.51	21.53	26.68	25.51	27.51
PCR-E36MD+	43.56	37.56	23.36	21.59	26.61	31.76	30.59	32.59
PCR-E50MD+	52.45	46.45	32.25	30.48	35.50	40.65	39.48	41.48
PCR-E68MD+	63.88	57.88	43.68	41.91	46.93	52.08	50.91	52.91
PCR-E80MD+	71.50	65.50	51.30	49.53	54.55	59.70	58.53	60.53
PCR-E96MD+	81.66	75.66	61.46	59.69	64.71	69.86	68.69	70.69

Mating connectors: PCR series cable-side IDC type female connector
PCR series cable-side soldering type female connector
Accessories: Dust-proof cap, PCS-E( )C

Through hole	SMT	Press-in	IDC	Soldering	Crimping	Wire wrapping	Others

Straight through hole type male connector for PCB (with screw lock)
PCR-E( )MD-SL+

RoHS

1.27 mm pitch connector

For PCB
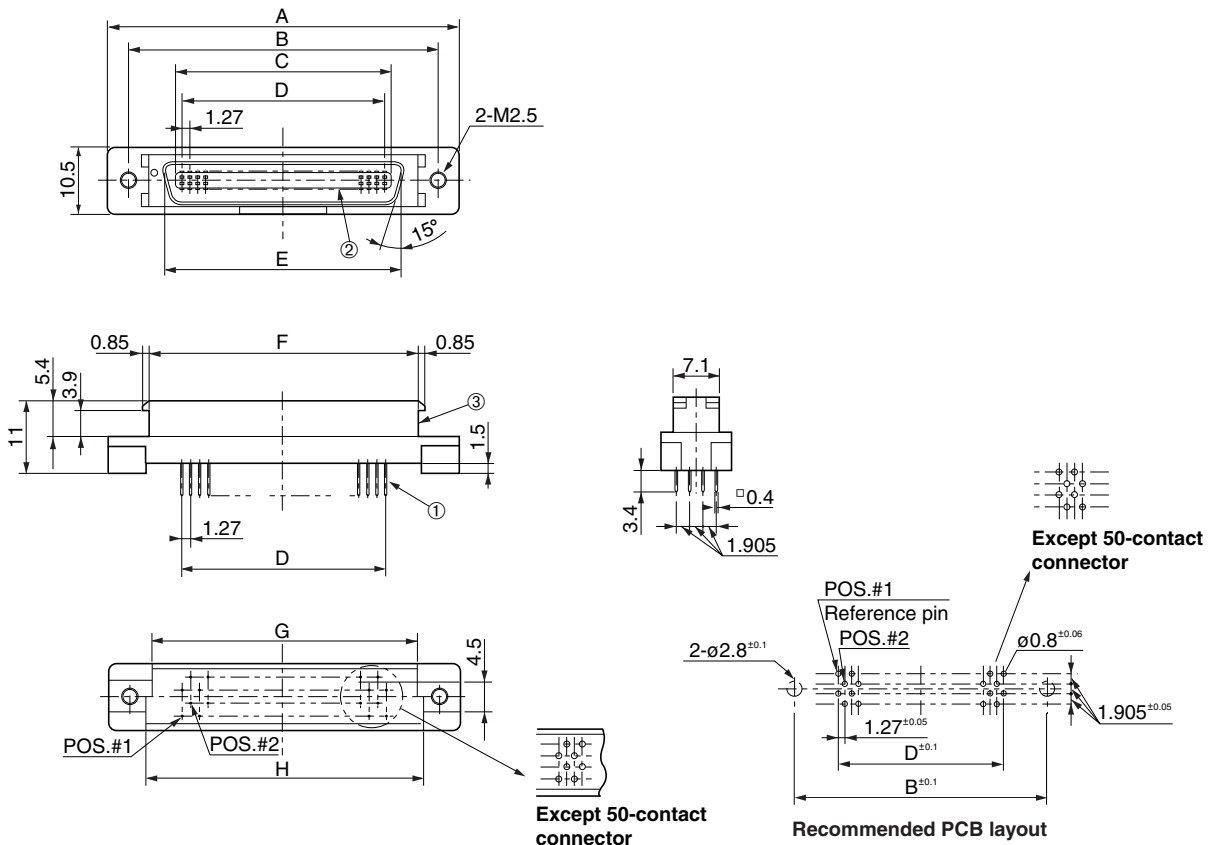
Straight Through hole

EMI-filtered
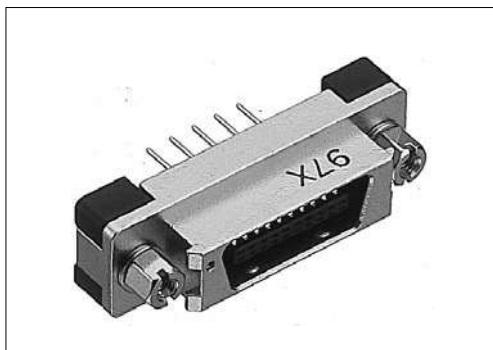
● **Configuration of product Part No.**

PCR-E ( ) MD- SL+
　　① 　② 　③ 　④

① Series name
② No. of contacts: 20, 28, 36, or 50
③ Type of connector
　 MD: Straight through hole type, male
④ With screw locks

M2.6 (For 50-contact connector)
M2 (For 20, 28 or 36-contact connectors)

Except 50-contact connector

POS.#1
Reference pin
POS.#2

2-ø2.8$^{±0.1}$

ø0.8$^{±0.06}$

1.27$^{±0.05}$

1.905$^{±0.05}$

D$^{±0.1}$

B$^{±0.1}$

Recommended PCB layout

POS.#1　POS.#2

Except 50-contact connector

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Spring washers
⑤	Screw locks

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H
PCR-E20MD-SL+	33.40	27.40	13.20	11.43	16.45	21.60	20.43	22.43
PCR-E28MD-SL+	38.48	32.48	18.28	16.51	21.53	26.68	25.51	27.51
PCR-E36MD-SL+	43.56	37.56	23.36	21.59	26.61	31.76	30.59	32.59
PCR-E50MD-SL+	52.45	46.45	32.25	30.48	35.50	40.65	39.48	41.48

Mating connectors: PCR series cable-side IDC type female connector
　　　　　　　　　　 PCR series cable-side soldering type female connector
**Accessories:** Dust-proof cap, PCS-E( )C

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

1.27 mm pitch connector

Right-angle through hole type male connector for PCB
PCR-E( )LMD( )+

For PCB

Right-angle Through hole

RoHS

EMI-filtered

● **Configuration of product Part No.**

PCR-E ( ) LMD ( )+
①　②　③　④

① Series name
② No. of contacts: 20, 28, 36, 50, 68 or 96
③ Type of connector
　LMD: Right-angle through hole type, male connector
④ Thickness of panel
　Blank: t = 1.6 mm MAX.
　A　: t = 2.1 mm MAX.
　B　: t = 2.1 mm MAX., electrostatic noise resistant (ESD resistant)
　C　: t = 1.6 mm MAX., electrostatic noise resistant (ESD resistant)

Form I contacts

Form II contacts

Except 50-contact connector

Except 50-contact connector

Connector mating side

Recommended PCB layout

● **Dimensions**

Part No.	A	B	C	D	E	F	G
PCR-E20LMD( )+	33.40	27.40	11.43	13.20	16.45	21.60	20.23
PCR-E28LMD( )+	38.48	32.48	16.51	18.28	21.53	26.68	25.31
PCR-E36LMD( )+	43.56	37.56	21.59	23.36	26.61	31.76	30.39
PCR-E50LMD( )+	52.45	46.45	30.48	32.25	35.50	40.65	39.28
PCR-E68LMD( )+	63.88	57.88	41.91	43.68	46.93	52.08	50.71
PCR-E96LMD( )+	81.66	75.66	59.69	61.46	64.71	69.86	68.49

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Bracket

Part No.	H	J	K	L	M	Contact length	Panel thickness
PCR-E( )LMD+	5.4	3.9	4.1	1.3	1.3	Refer to Form I contacts	1.6mm MAX.
PCR-E( )LMDA+	5.9	4.4	3.6	0.8	0.8		2.1mm MAX.
PCR-E( )LMDB+	5.9	4.4	3.6	0.8	0.8	Refer to Form II contacts	2.1mm MAX.
PCR-E( )LMDC+	5.4	3.9	4.1	1.3	1.3		1.6mm MAX.

Mating connectors: PCR series cable-side IDC type female connector
　　　　　　　　　　PCR series cable-side soldering type female connector
Accessories: Dust-proof cap, PCS-E( )C

Through hole ┃ SMT ┃ Press-in ┃ IDC ┃ Soldering ┃ Crimping ┃ Wire wrapping ┃ Others

Right-angle through hole type male connector for PCB (with screw lock)
PCR-E( )LMD-SL+

RoHS
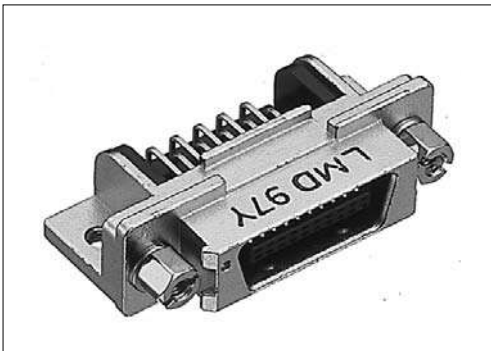
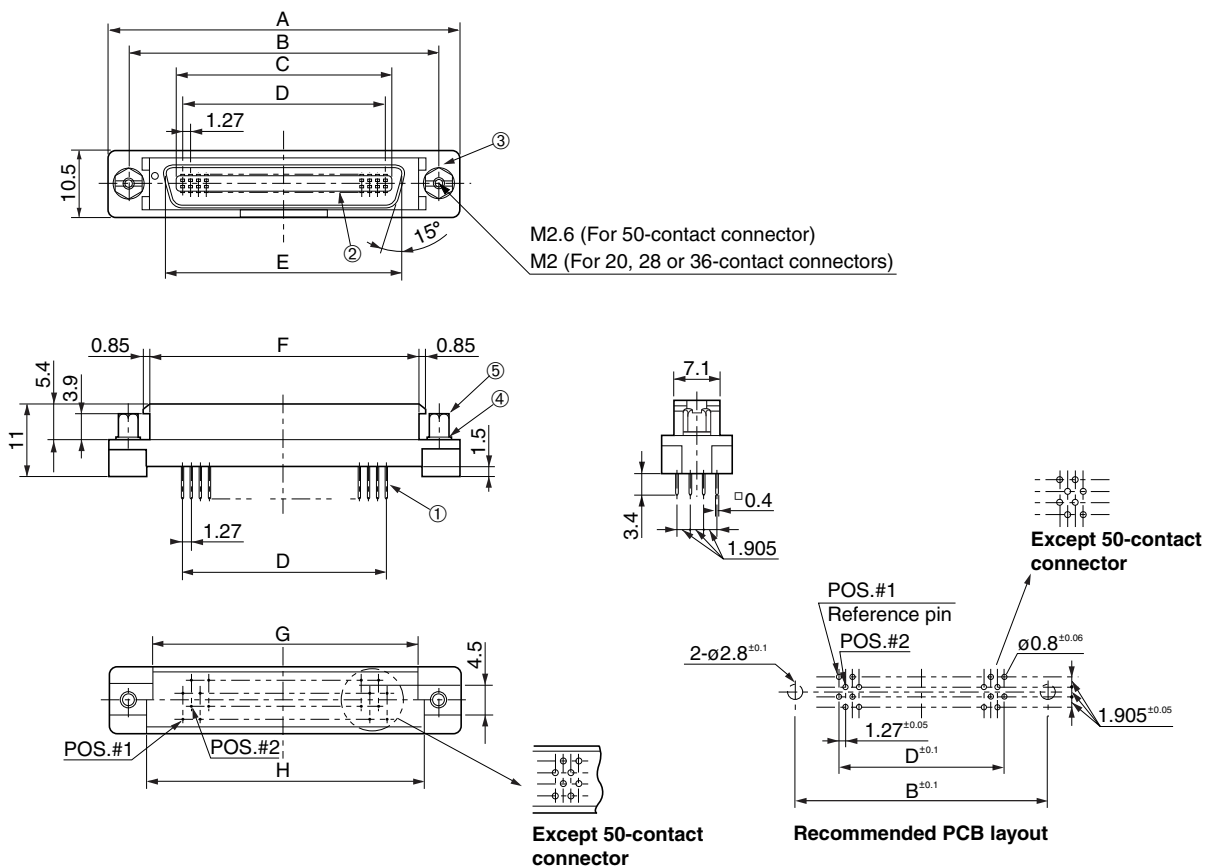● **Configuration of product Part No.**

PCR-E ( ) LMD- SL+
　　① 　②　 ③ 　④

① Series name
② No. of contacts: 20, 28, 36 or 50
③ Type of connector
　 LMD: Right-angle through hole type, male connector
④ With screw locks

M2.6 (For 50-contact connector)
M2 (For 20, 28 or 36-contact connectors)

POS.#2
POS.#1

Connector mating side

2-ø2.8±0.1

ø0.8±0.06

5.905MAX

1.905±0.05

POS.#2
POS.#1

Except 50-contact connector

1.27±0.05

C±0.1

B±0.1

Recommended PCB layout

Except 50-contact connector
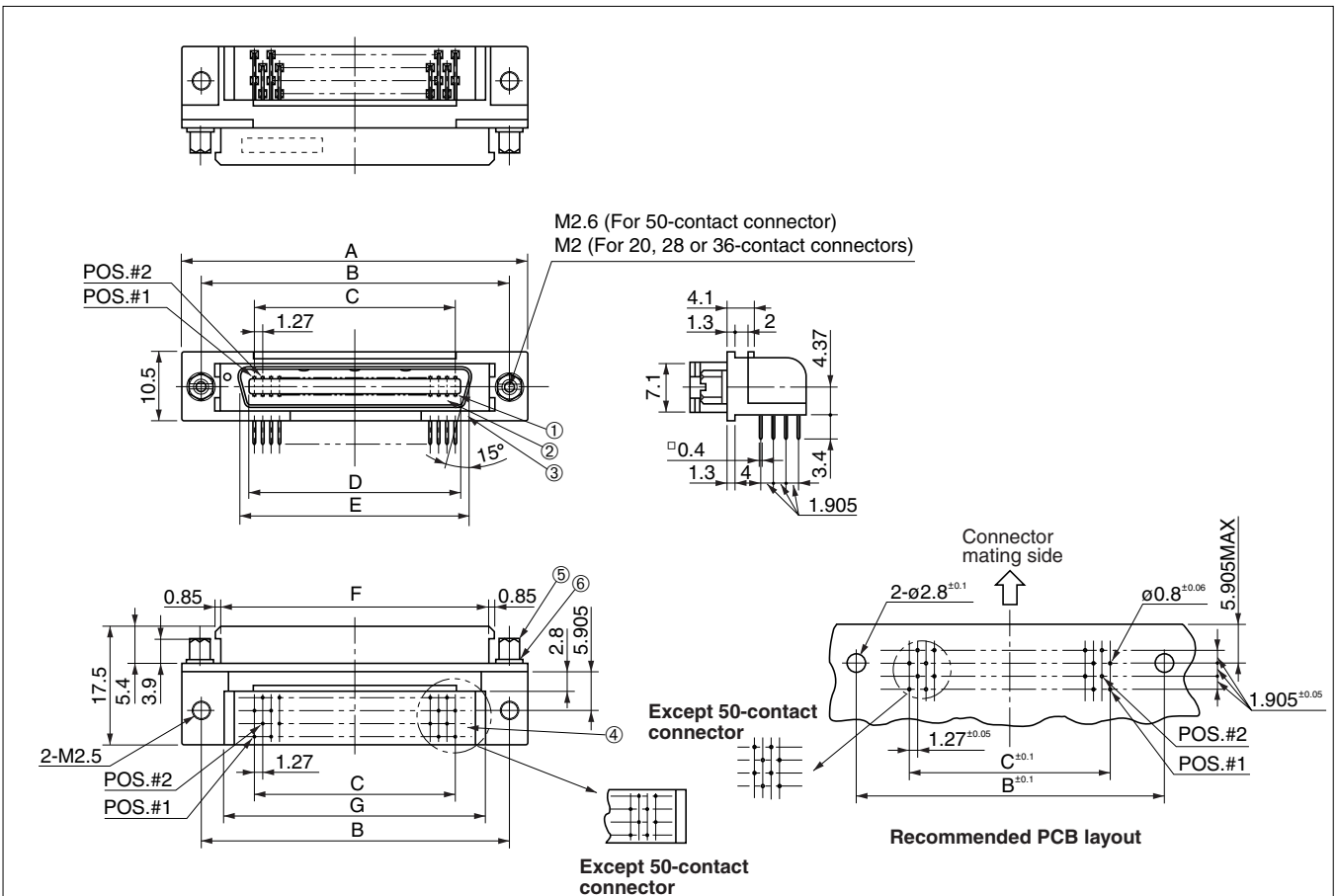
● **Components**

①	Contacts
②	Insulator
③	Shell
④	Bracket
⑤	Screw locks
⑥	Spring washers

● **Dimensions**

Part No.	A	B	C	D	E	F	G
PCR-E20LMD-SL+	33.40	27.40	11.43	13.20	16.45	21.60	20.23
PCR-E28LMD-SL+	38.48	32.48	16.51	18.28	21.53	26.68	25.31
PCR-E36LMD-SL+	43.56	37.56	21.59	23.36	26.61	31.76	30.39
PCR-E50LMD-SL+	52.45	46.45	30.48	32.25	35.50	40.65	39.28

Mating connectors: PCR series cable-side IDC type female connector

PCR series cable-side soldering type female connector

Accessories: Dust-proof cap, PCS-E( )C

Cable-side IDC type female connector
PCR-E( )F( )+

RoHS

● Configuration of product Part No.

PCR-E ( ) F( )+
①　②　③

① Series name
② No. of contacts: 20, 28, 36, 50, 68, 80, or 96
③ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)
F　: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.8-1 mm. For loose wire.
FA: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.5-0.65 mm. For loose wire.
FB: AWG#30(7 / 0.1). Outside diameter of wire is 0.5-0.65 mm. For loose wire.
FC: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). For flat cable, t = 1.0 mm MAX. (See Note #1)
FD: AWG#30(7 / 0.1). For flat cable, t = 1.0 mm MAX. (See Note #1)
FH: AWG#32(7 / 0.08). Outside diameter of wire is 0.35-0.5 mm. For loose wire. (See Note #2)
FJ : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.65-0.8 mm. For loose wire.
(See Note #2)
FK: AWG#30(7 / 0.1). Outside diameter of wire is 0.65-0.8 mm. For loose wire. (See Note #2)

Part No. is marked on the opposite surface.

HONDA is marked on the opposite surface.

Form of 96-contact connector

Except of 50-contact connector

Form of 96-contact connector

Note 1:
　FC is not available for 96-contact connector.
　FD is not available for 20, 80, or 96-contact connectors.
Note 2:
　FH is available only for 68-contact connector.
　FJ is available for 28, or 96-contact connectors.
　FK is available only for 96-contact connector.

Cable housing for loose wires

Cable housing for flat cable

● Components
①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housings

● Dimensions
Part No.	A	B	C	D
PCR-E20F( )+	21.65	13.35	11.43	16.25
PCR-E28F( )+	26.7	18.43	16.51	21.33
PCR-E36F( )+	31.8	23.51	21.59	26.41
PCR-E50F( )+	40.7	32.4	30.48	35.3
PCR-E68F( )+	52.1	43.83	41.91	46.73
PCR-E80F( )+	59.7	51.45	49.53	54.35
PCR-E96F( )+	69.9	61.61	59.69	64.51

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector
PCR-E series PCB-side straight through hole type or SMT type connector
Tool: (Refer to page Tool-12)

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

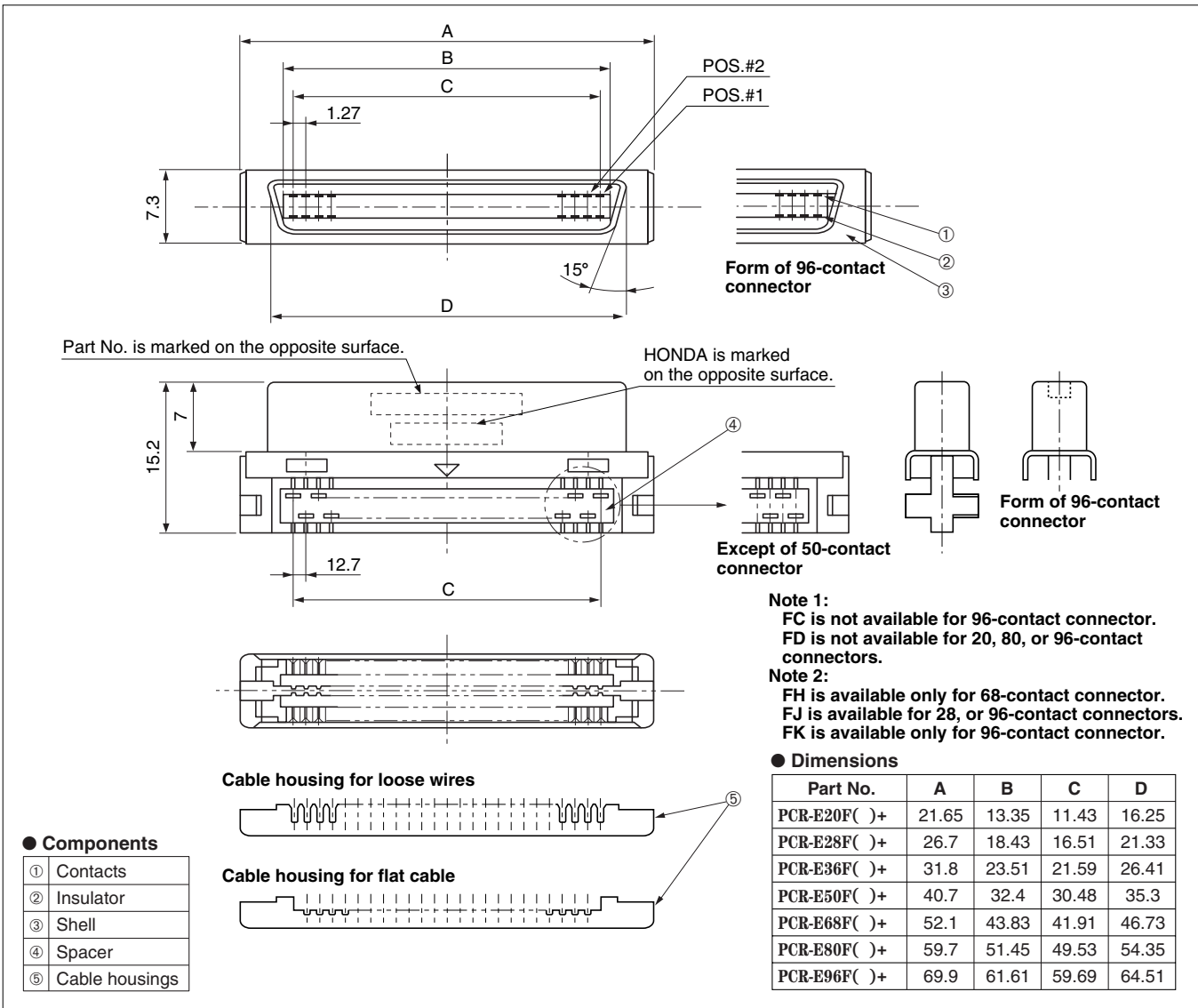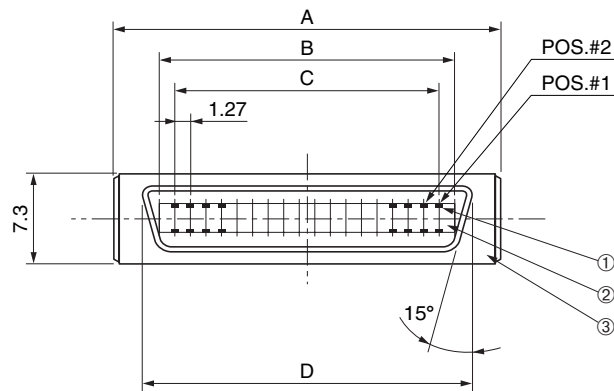# Cable-side soldering type female connector
PCR-E( )FS+
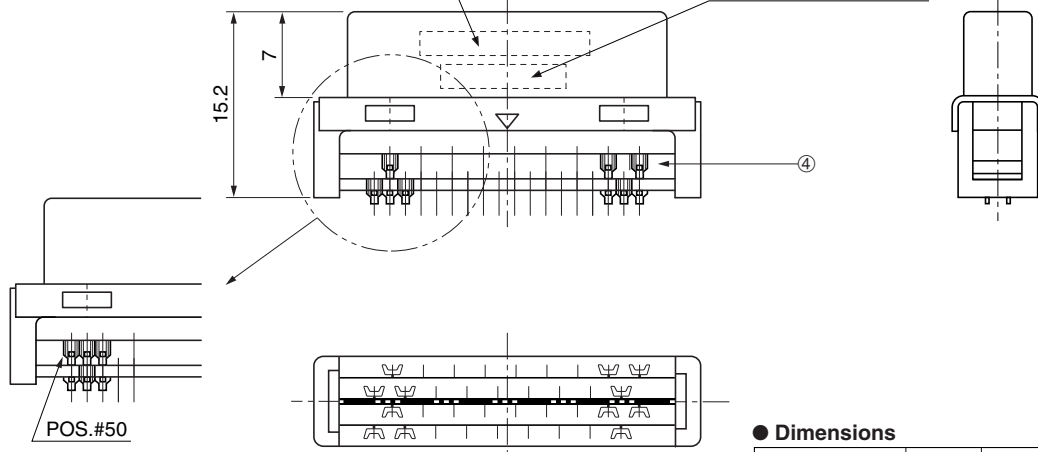
RoHS

● **Configuration of product Part No.**

PCR-E ( ) FS+
      ①   ② ③

① Series name
② No. of contacts: 20, 28, 36, 50, 68 or 96
③ Type of connector
   FS: Soldering type, female, AWG#20 MAX.

A
B
C
1.27
POS.#2
POS.#1
7.3
①
②
③
15°
D

Part No. is marked on the opposite surface.

HONDA is marked on the opposite surface.

15.2
7
④

POS.#50

For 50-contact connector

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Spacer

● **Dimensions**

Part No.	A	B	C	D
PCR-E20FS+	21.65	13.35	11.43	16.25
PCR-E28FS+	26.70	18.43	16.51	21.33
PCR-E36FS+	31.80	23.51	21.59	26.41
PCR-E50FS+	40.70	32.40	30.48	35.30
PCR-E68FS+	52.10	43.83	41.91	46.73
PCR-E96FS+	69.90	61.61	56.69	64.51

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector

PCR-E series PCB-side straight through hole type or SMT type connector

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

RoHS

Cable-side IDC type male connector for mounting on a panel
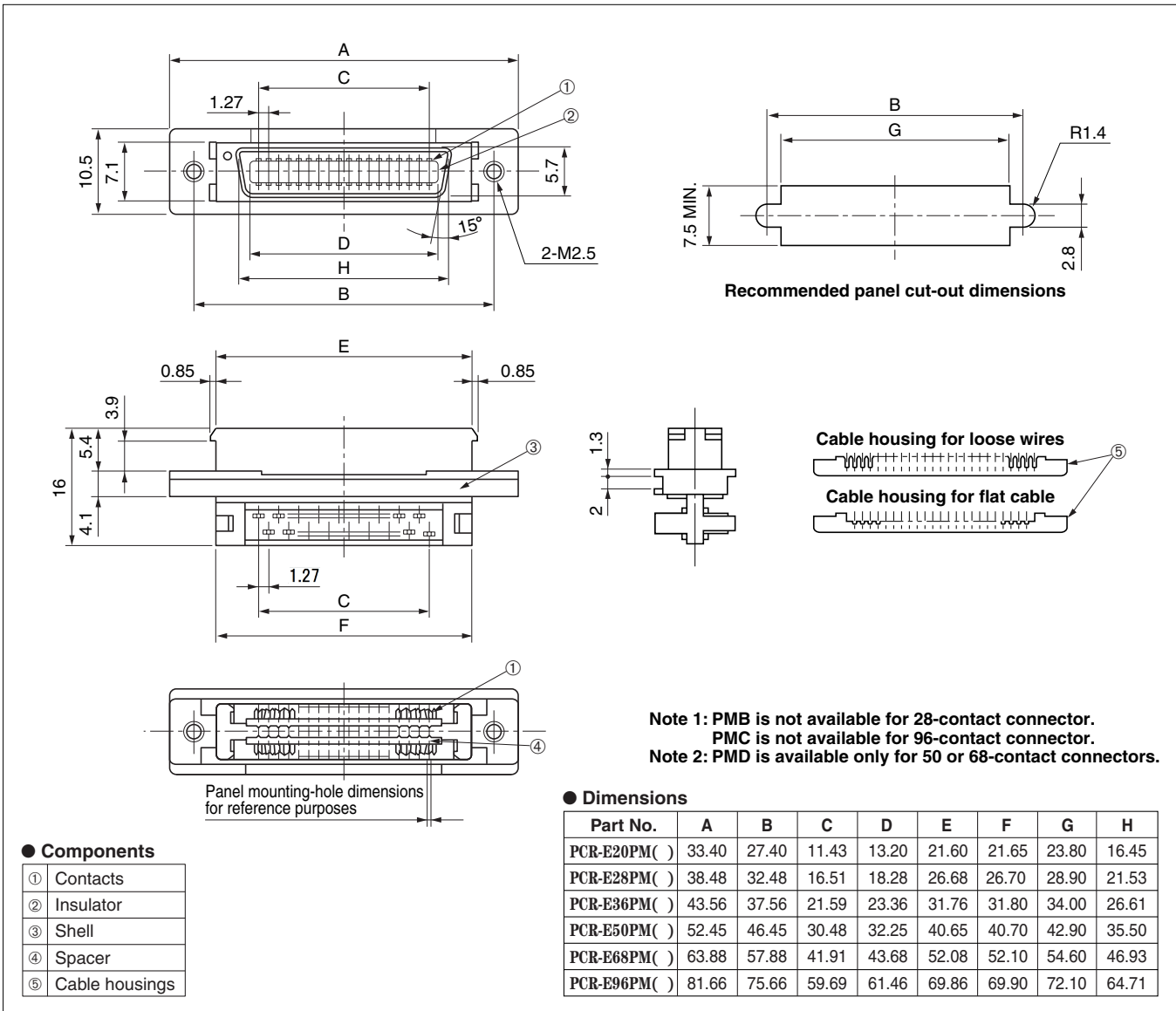# PCR-E( )PM( )

RoHS

● **Configuration of product Part No.**

PCR-E ( ) PM ( )
    ①   ② ③   ④

① Series name
② No. of contacts: 20, 28, 36, 50, 68 or 96
③ Type of connector: Panel mount type, male
④ Cable sizes for reference purposes (In case the cable sheath is made of PVC resin)
  PM : AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.8-1 mm. For loose wire.
  PMA: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). Outside diameter of wire is 0.5-0.65 mm. For loose wire.
  PMB: AWG#30(7 / 0.1). Outside diameter of wire is 0.5-0.65 mm. For loose wire. (See Note #1)
  PMC: AWG#28(7 / 0.127) or AWG#30(1 / 0.254). IDC for fusible cable. (See Note #1)
  PMD: AWG#30(7 / 0.1). IDC for fusible cable. (See Note #2)

Recommended panel cut-out dimensions

Cable housing for loose wires

Cable housing for flat cable

Note 1: PMB is not available for 28-contact connector.
PMC is not available for 96-contact connector.
Note 2: PMD is available only for 50 or 68-contact connectors.

Panel mounting-hole dimensions
for reference purposes

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housings

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H
PCR-E20PM( )	33.40	27.40	11.43	13.20	21.60	21.65	23.80	16.45
PCR-E28PM( )	38.48	32.48	16.51	18.28	26.68	26.70	28.90	21.53
PCR-E36PM( )	43.56	37.56	21.59	23.36	31.76	31.80	34.00	26.61
PCR-E50PM( )	52.45	46.45	30.48	32.25	40.65	40.70	42.90	35.50
PCR-E68PM( )	63.88	57.88	41.91	43.68	52.08	52.10	54.60	46.93
PCR-E96PM( )	81.66	75.66	59.69	61.46	69.86	69.90	72.10	64.71

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )C

Tool: (Refer to page Tool-12)

Through hole | SMT | Press-in | IDC | Soldering | Crimping | Wire wrapping | Others

Cable-side soldering type male connector for mounting on a panel
PCR-E( )PMRS+

(RoHS)

1.27 mm pitch connector

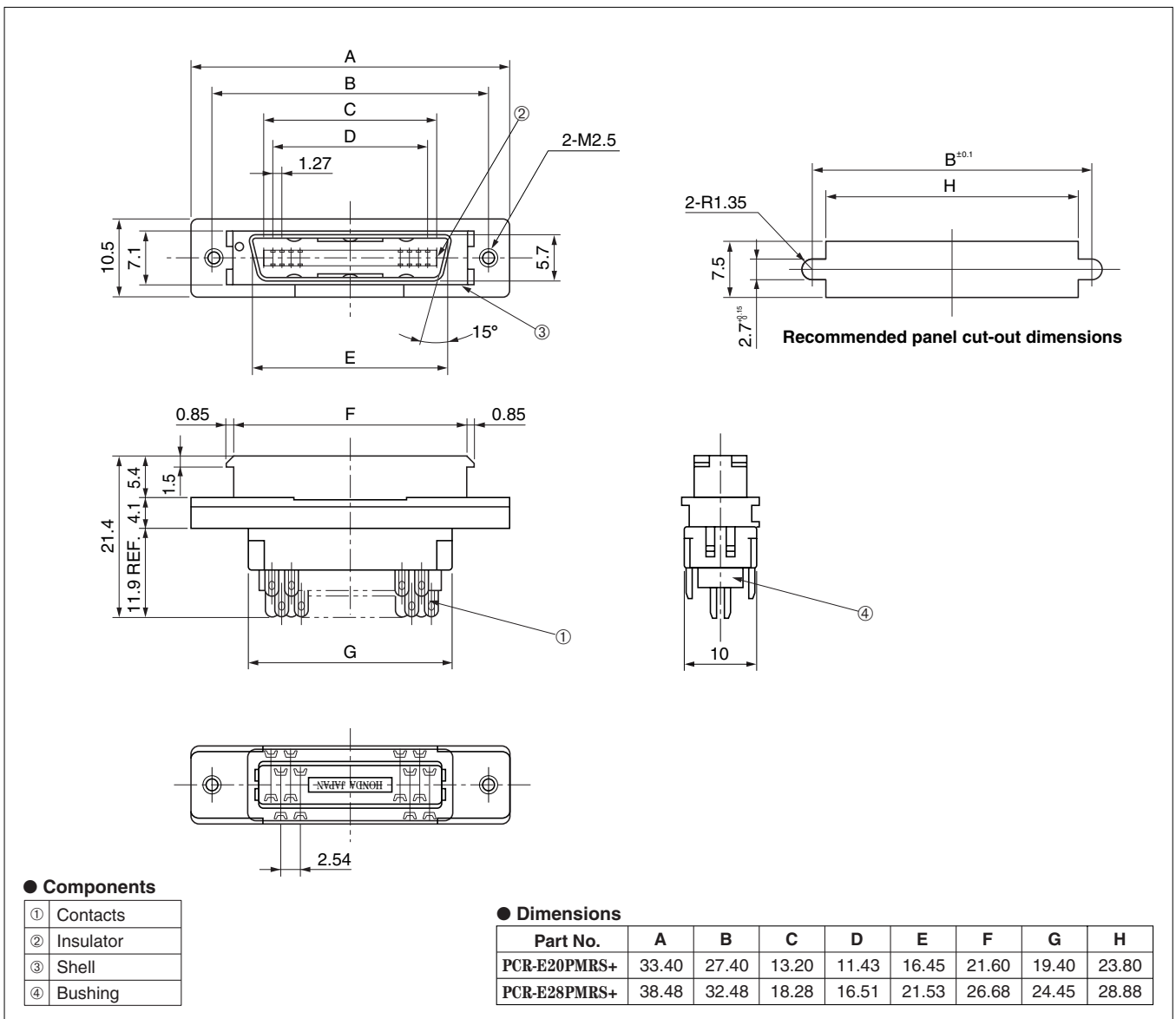**For panel**

Soldering

EMI-filtered

● **Configuration of product Part No.**

PCR-E ( ) PMRS+
　　　　①　　　②　　　③

① Series name
② No. of contacts: 20 or 28
③ Type of connector: Panel mount type, male
　 Outside diameter of wire is 2.2 mm MAX.

2-M2.5

10.5
7.1
1.27
5.7
15°
E
A
B
C
D
②
③

B±0.1
H
2-R1.35
7.5
2.7 0 +0.15
Recommended panel cut-out dimensions

0.85　　F　　0.85
5.4
1.5
21.4
11.9 REF.　4.1
G
①

10
④

2.54
HONDA JAPAN

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Bushing

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H
PCR-E20PMRS+	33.40	27.40	13.20	11.43	16.45	21.60	19.40	23.80
PCR-E28PMRS+	38.48	32.48	18.28	16.51	21.53	26.68	24.45	28.88

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )C

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole

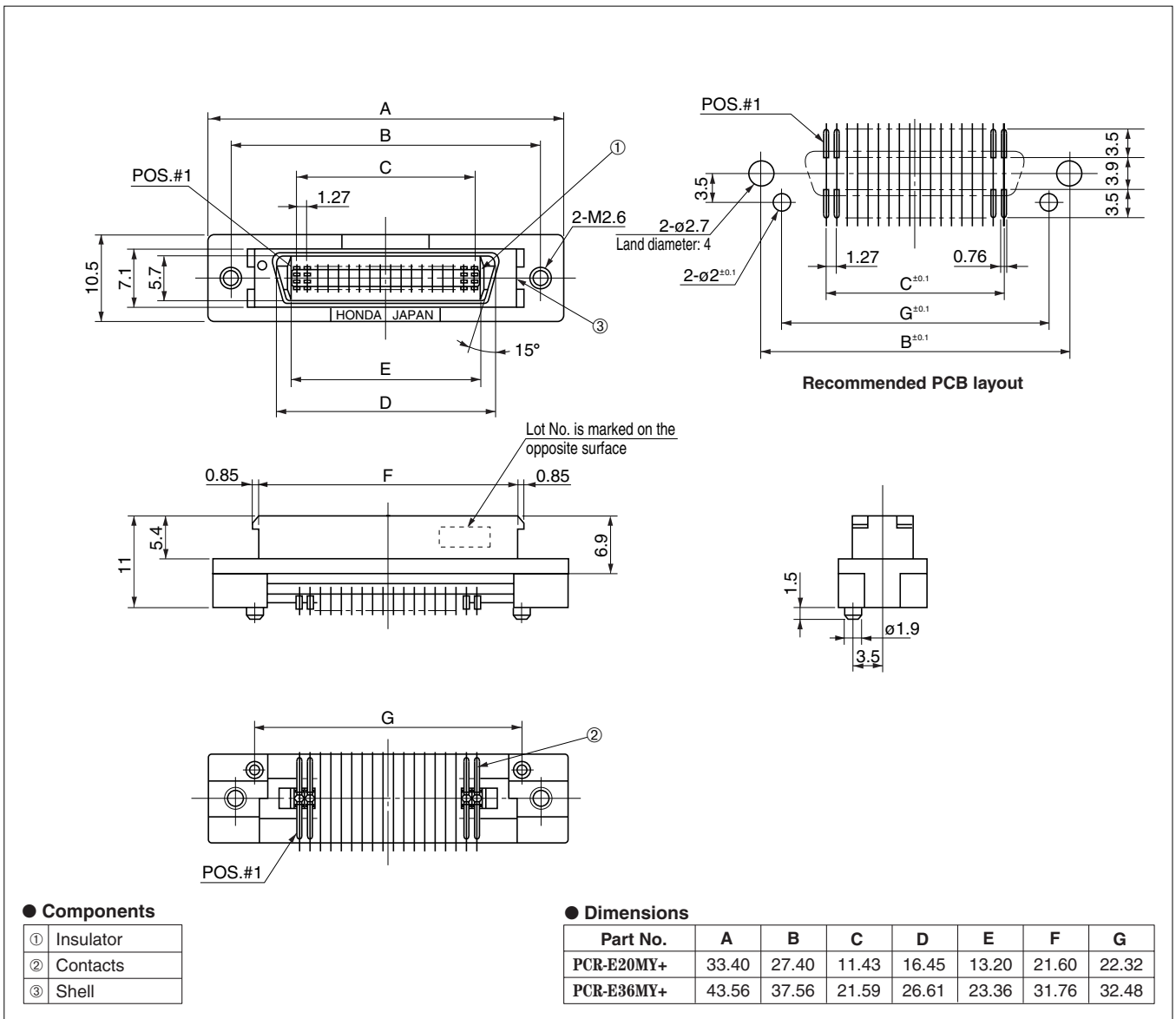# Straight SMT type male connector for PCB
PCR-E( )MY+

● **Configuration of product Part No.**

PCR-E ( ) MY+
①   ②   ③

① Series name
② No. of contacts: 20 or 36
③ Type of connector
　 MY: Straight SMT type, male

Recommended PCB layout

Lot No. is marked on the opposite surface

● **Components**

①	Insulator
②	Contacts
③	Shell

● **Dimensions**

Part No.	A	B	C	D	E	F	G
PCR-E20MY+	33.40	27.40	11.43	16.45	13.20	21.60	22.32
PCR-E36MY+	43.56	37.56	21.59	26.61	23.36	31.76	32.48

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )CP

Others	Wire wrapping	Crimping	Soldering	IDC	Press-in	SMT	Through hole

1.27 mm pitch connector

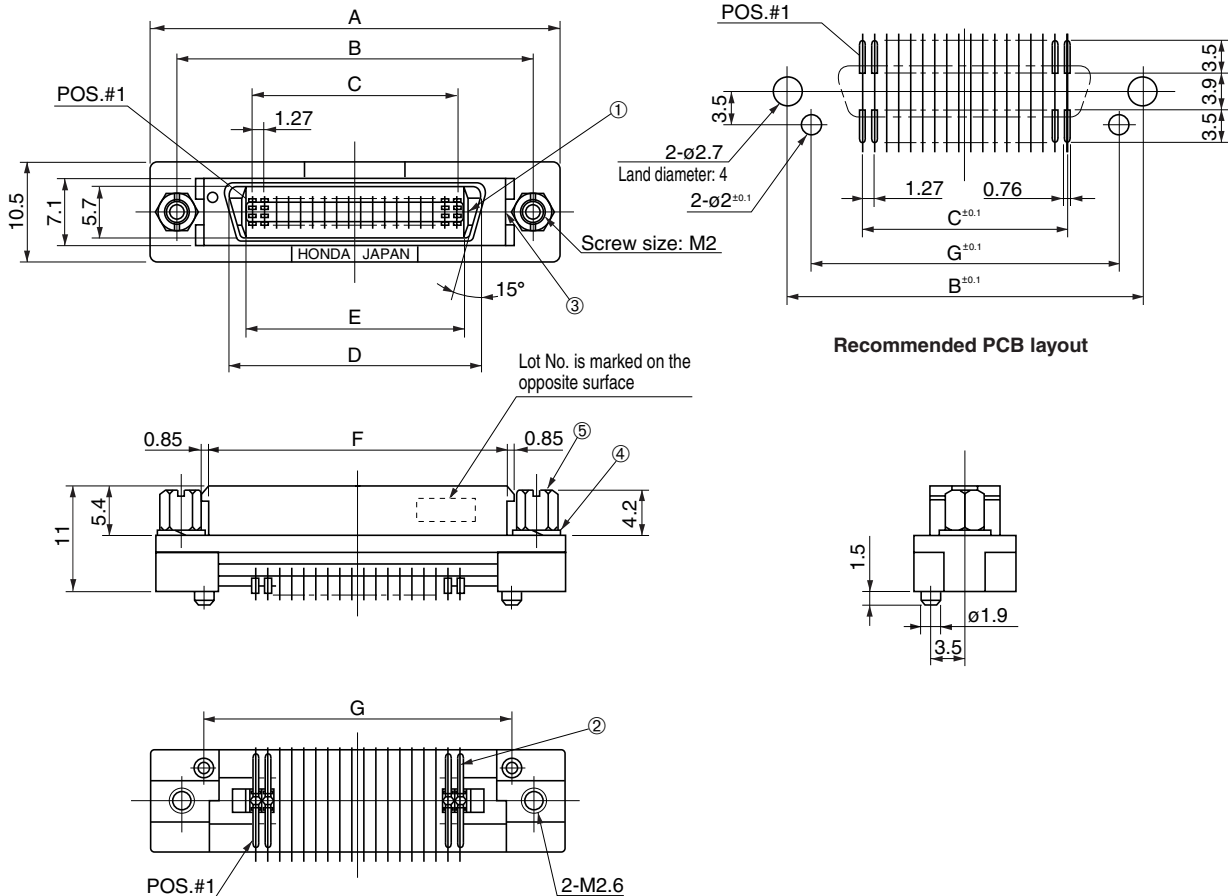# Straight SMT type male connector for PCB (with screw lock)
PCR-E( )MY-SL+

RoHS

For PCB

Straight SMT

EMI-filtered
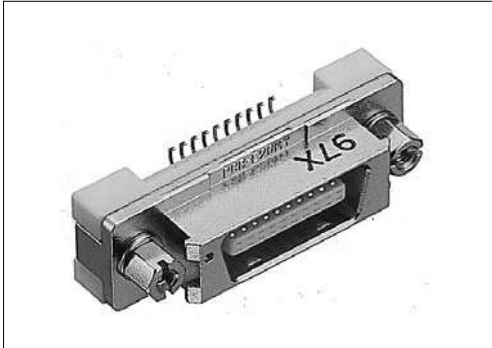
● **Configuration of product Part No.**

PCR-E ( ) MY- SL+
　　 ①　 ②　 ③　 ④

① Series name
② No. of contacts: 20 or 36
③ Type of connector
　 MY: Straight SMT type, male
④ With screw locks

POS.#1

2-ø2.7
Land diameter: 4
2-ø2±0.1

Screw size: M2

HONDA JAPAN

15°

1.27　0.76

Recommended PCB layout

Lot No. is marked on the opposite surface

2-M2.6

POS.#1

ø1.9

● **Components**

①	Insulator
②	Contacts
③	Shell
④	Spring washers
⑤	Screw locks

● **Dimensions**

Part No.	A	B	C	D	E	F	G
PCR-E20MY-SL+	33.40	27.40	11.43	16.45	13.20	21.60	22.32
PCR-E36MY-SL+	43.56	37.56	21.59	26.61	23.36	31.76	32.48

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )CP

Through hole	SMT	Press-in	IDC	Soldering	Crimping	Wire wrapping	Others

1.27 mm pitch connector

For PCB

Right-angle SMT type male connector for PCB
PCR-E( )LMY+
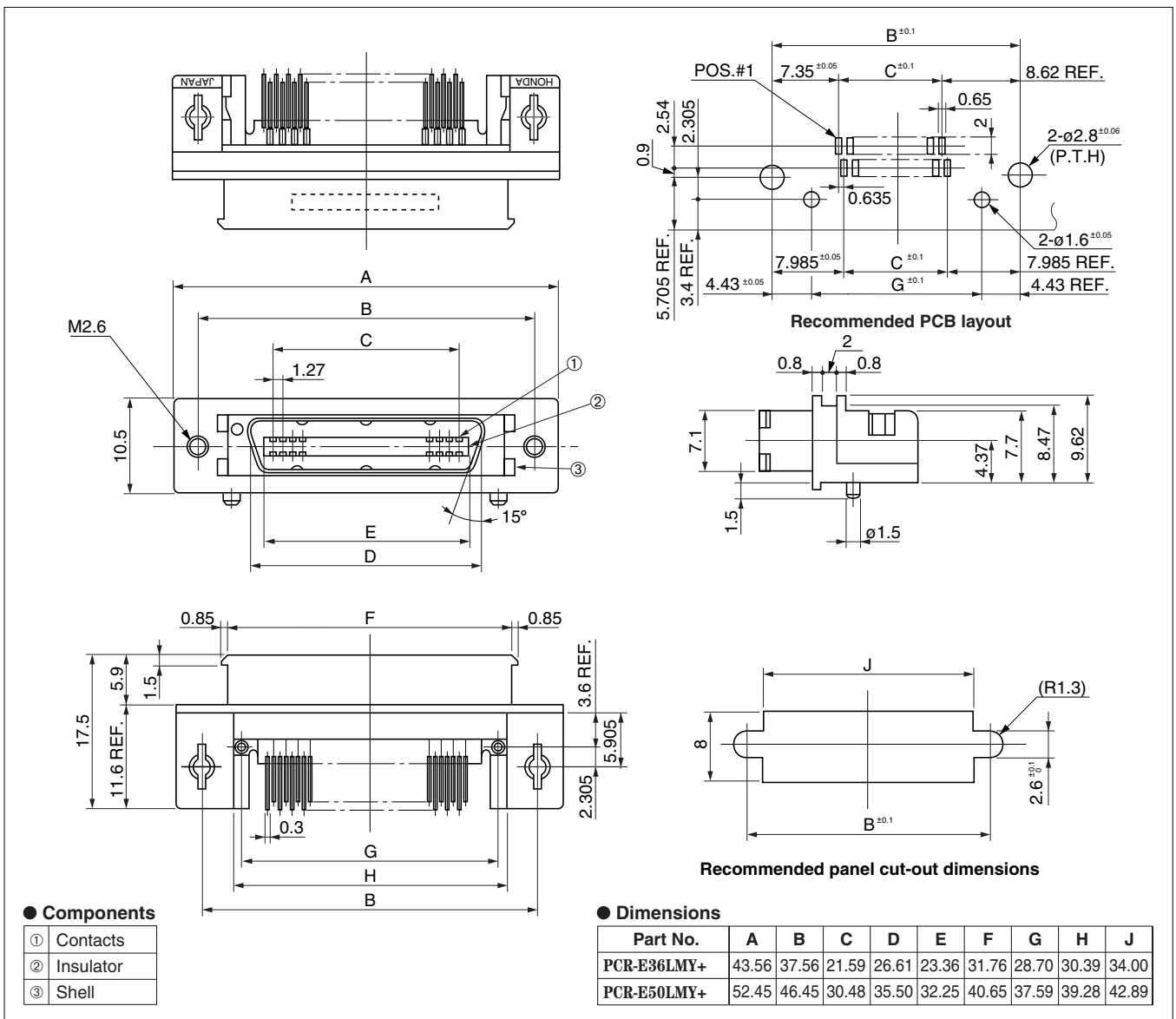
Right-angle SMT

RoHS

EMI-filtered

● **Configuration of product Part No.**

PCR-E ( ) LMY+
①　　②　　③

① Series name
② No. of contacts: 36 or 50
③ Type of connector
　 LMY: Right-angle SMT type, male

Recommended PCB layout

Recommended panel cut-out dimensions

● **Components**

①	Contacts
②	Insulator
③	Shell

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H	J
PCR-E36LMY+	43.56	37.56	21.59	26.61	23.36	31.76	28.70	30.39	34.00
PCR-E50LMY+	52.45	46.45	30.48	35.50	32.25	40.65	37.59	39.28	42.89

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )CP

Others	Wire wrapping	Crimping	Soldering	IDC	Press-in	SMT	Through hole

Right-angle SMT type male connector for PCB (with screw lock)
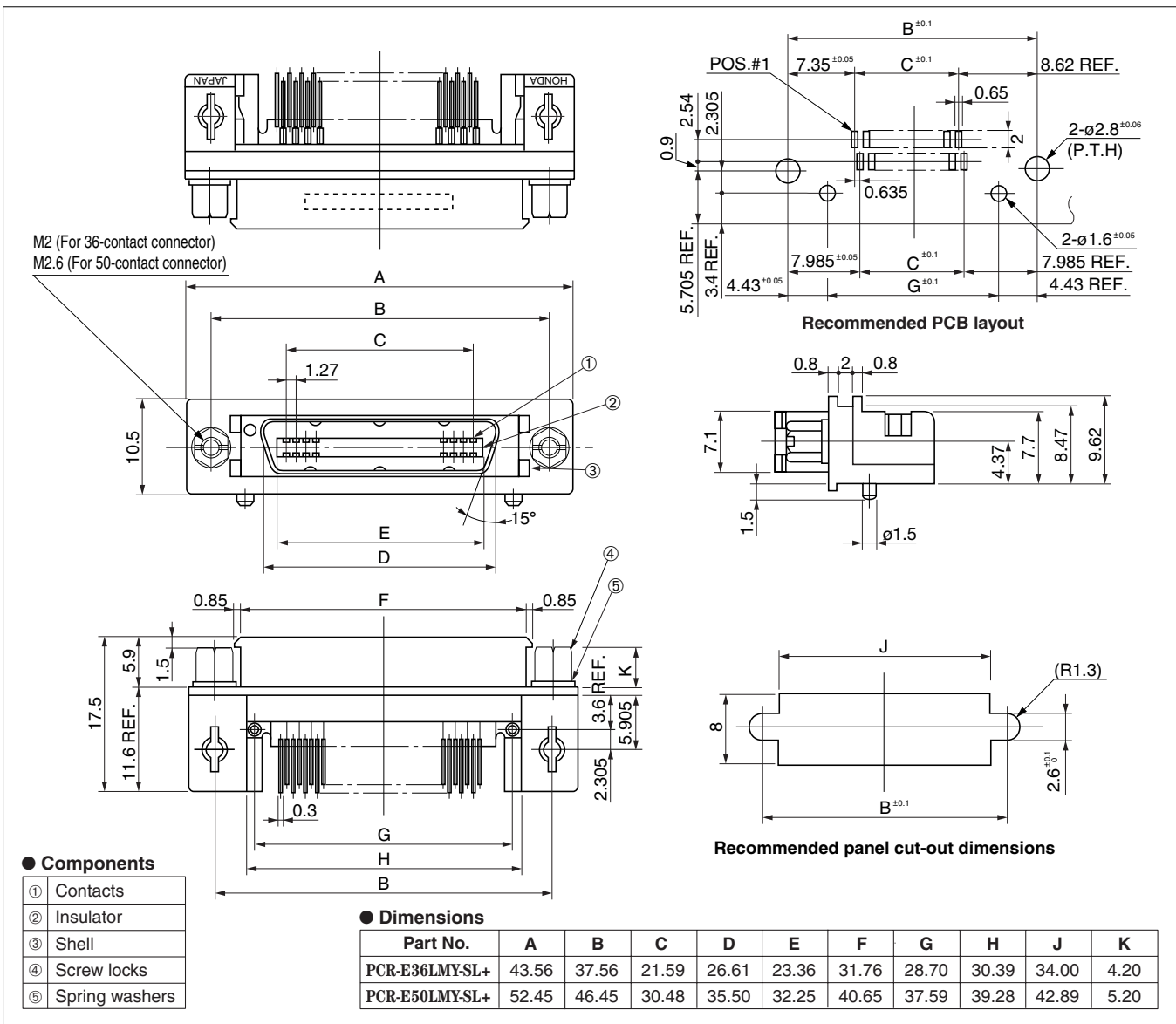## PCR-E( )LMY-SL+

RoHS

1.27 mm pitch connector

For PCB

Right-angle SMT

EMI-filtered
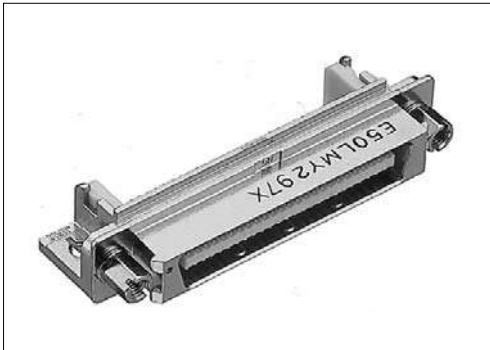
● **Configuration of product Part No.**

PCR-E ( ) LMY- SL+

① ② ③ ④

① Series name
② No. of contacts: 36 or 50
③ Type of connector
LMY: Right-angle SMT type, male
④ With screw locks

Recommended PCB layout

M2 (For 36-contact connector)
M2.6 (For 50-contact connector)

2-ø2.8 ±0.06 (P.T.H)
2-ø1.6 ±0.05

Recommended panel cut-out dimensions

● **Components**

①	Contacts
②	Insulator
③	Shell
④	Screw locks
⑤	Spring washers

● **Dimensions**

Part No.	A	B	C	D	E	F	G	H	J	K
PCR-E36LMY-SL+	43.56	37.56	21.59	26.61	23.36	31.76	28.70	30.39	34.00	4.20
PCR-E50LMY-SL+	52.45	46.45	30.48	35.50	32.25	40.65	37.59	39.28	42.89	5.20

Mating connectors: PCR series cable-side IDC type or soldering type female connector

Accessories: Dust-proof cap, PCS-E( )CP

Through hole	SMT	Press-in	IDC	Soldering	Crimping	Wire wrapping	Others

Cable-side soldering type female connector PCR-S( )FS+

1.27 mm pitch connector

For cable

Soldering

RoHS

EMI-Filtered

● **Configuration of product Part No.**

PCR-S ( ) FS+
   ①   ② ③

① Series name
② No. of contacts: 20, 28, 36 or 50
③ Type of connector
  FS: Soldering type, female, AWG#20 MAX.

A
B
C
1.27
9.8
5.5
15°
D
①
②

15.5
7
2.7
③

For 50-contact connector

HONDA

● **Components**

①	Contacts
②	Shell
③	Insulator

● **Dimensions**

Part No.	A	B	C	D
PCR-S20FS+	19.40	13.35	11.43	16.25
PCR-S28FS+	24.48	18.43	16.51	21.33
PCR-S36FS+	29.56	23.51	21.59	26.41
PCR-S50FS+	38.45	32.40	30.48	35.30

Mating connectors: PCR-E series PCB-side right-angle through hole type or SMT type connector
                     PCR-E series PCB-side straight through hole type or SMT type connector

Others	Wire wrapping	Crimping	Soldering	IDC	Press-in	SMT	Through hole

RoHS

Vertical type plastic backshell for cable extension
PCR-S( )PMLA2+S

RoHS
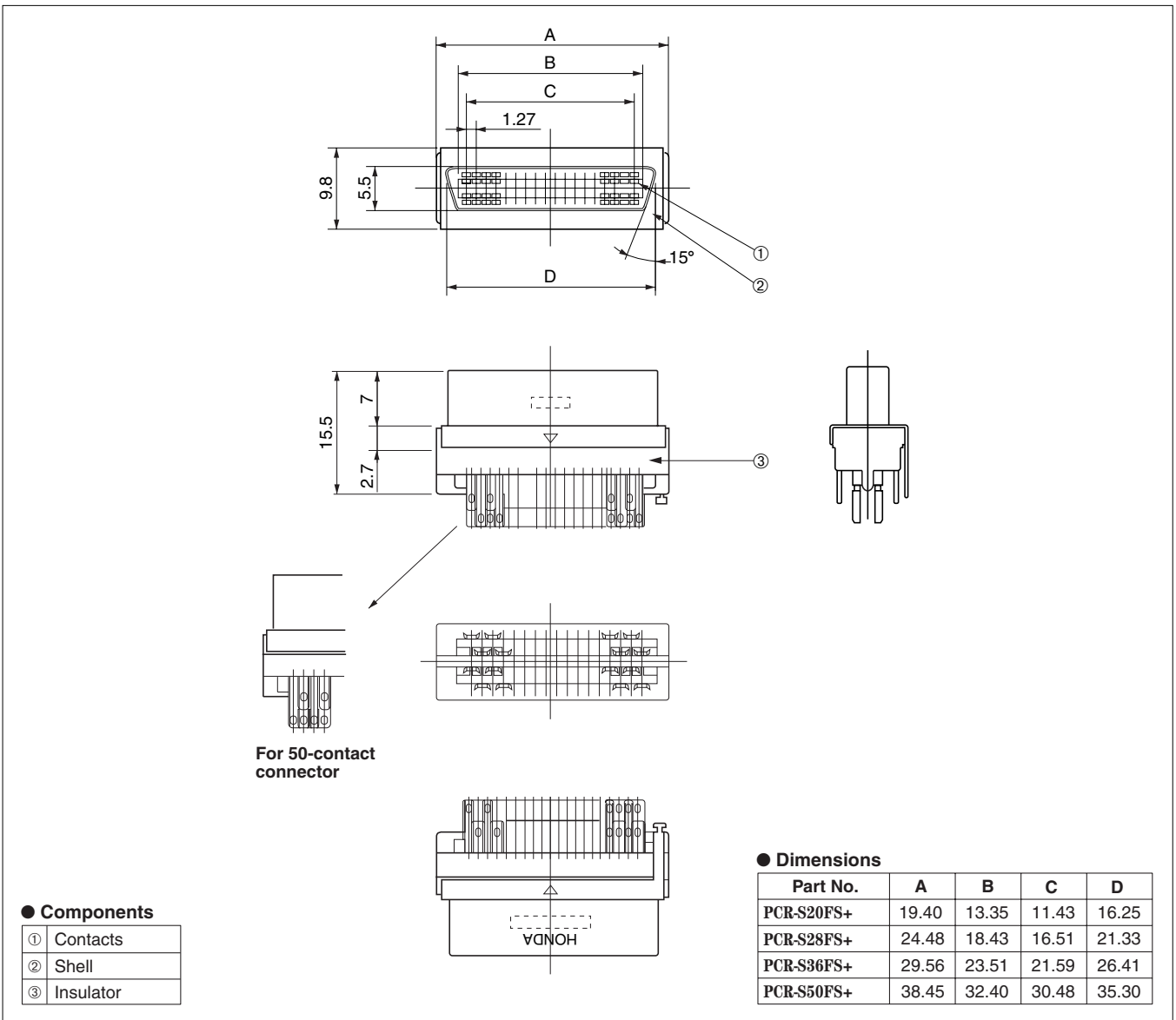
● **Configuration of product Part No.**

PCR-S ( ) PMLA2+S
　　① ② ③

① Series name
② No. of contacts: 20 or 28
③ Vertical type backshell for PCR-E( )PMRS-SL+

øD

E
13.5

B

①

HONDA

②③

C

A
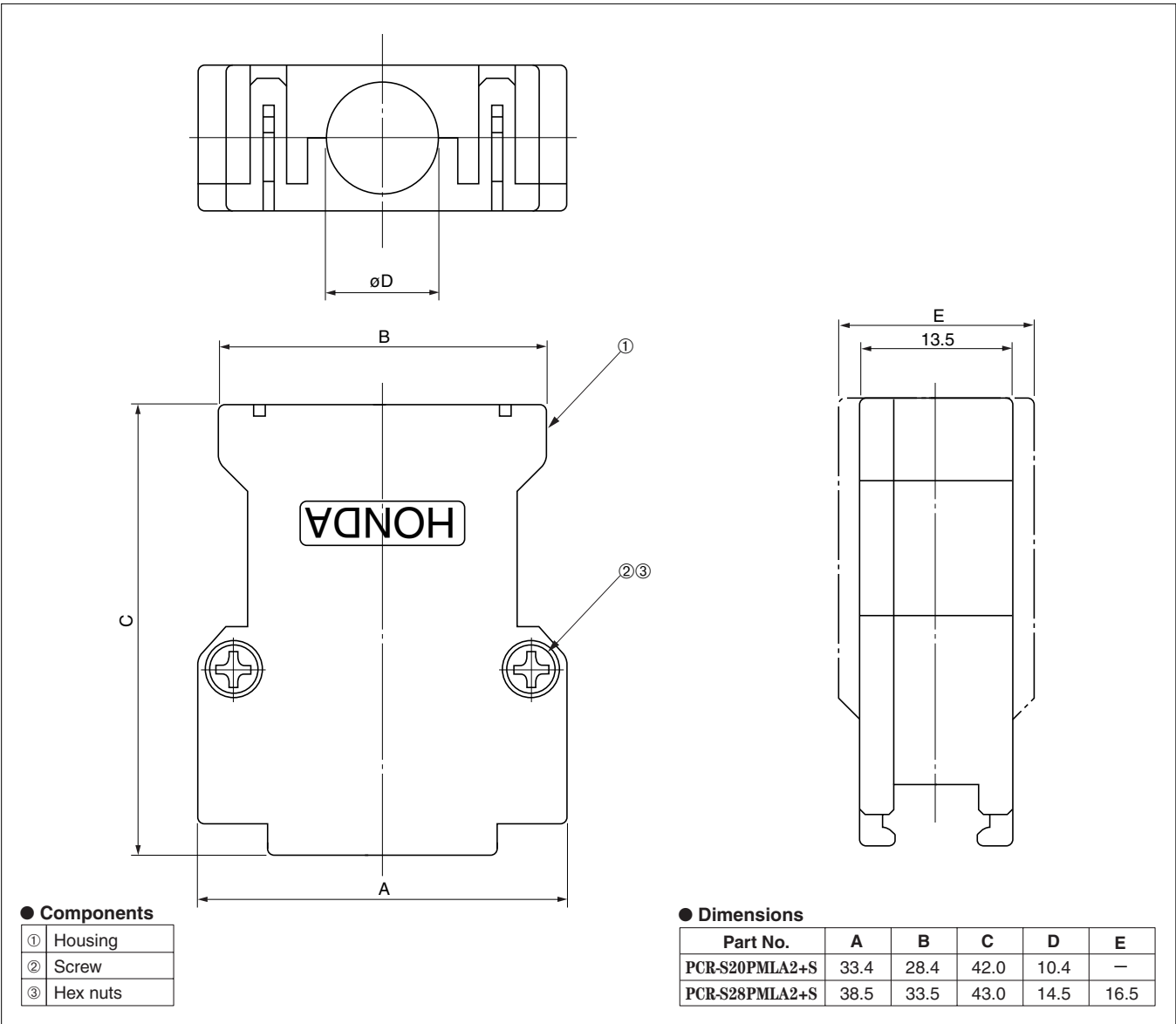
● **Components**

①	Housing
②	Screw
③	Hex nuts

● **Dimensions**

Part No.	A	B	C	D	E
PCR-S20PMLA2+S	33.4	28.4	42.0	10.4	—
PCR-S28PMLA2+S	38.5	33.5	43.0	14.5	16.5

Mating connectors: PCR-E( )PMRS-SL+

Through hole	SMT	Press-in	IDC	Soldering	Crimping	Wire wrapping	Others

Vertical type plastic backshell (without screw lock)
PCR-V20L( )

RoHS

● **Configuration of product Part No.**

PCR-V 20 L ( )
  ①   ② ③

① Series name
② No. of contacts: 20
③ For use with specific cable sizes
　A: Outside diameter of cable is 6 mm.
　B: Outside diameter of cable is 8 mm.

9.5

③

21

HONDA

37

30

11.4

①

②
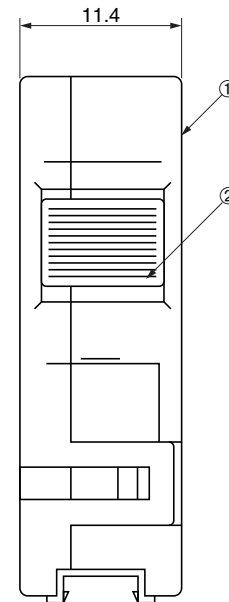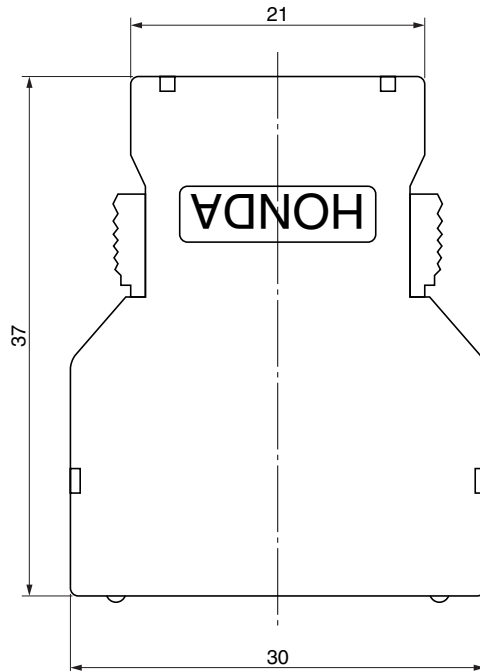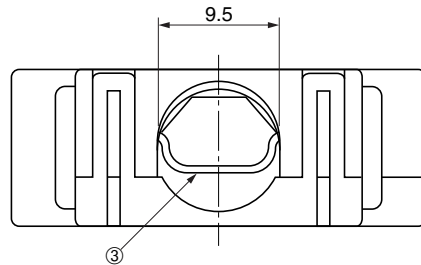
● **Components**

①	Housing
②	Lock hardware
③	Clamp

● **Dimensions**

Part No.	For use with specific cable sizes (outside diameter)
PCR-V20LA	ø6
PCR-V20LB	ø8

Mating connectors: PCR-E20F( )+, PCR-E20FS+

Vertical type plastic backshell (with screw lock)
PCR-LS( )LA( )

RoHS

● **Configuration of product Part No.**

$$\underset{①}{\underline{\text{PCR-LS}}}\ \underset{②}{(\ )}\ \underset{③}{\underline{\text{LA}(\ )}}$$

① Series name
② No. of contacts: 20, 28, 36 or 50
③ Vertical type backshell for PCR-S( )FS+

PCR-LS20LA1: Max outside diameter of cable is 10 mm.
PCR-LS20LA : Max outside diameter of cable is 10 mm.
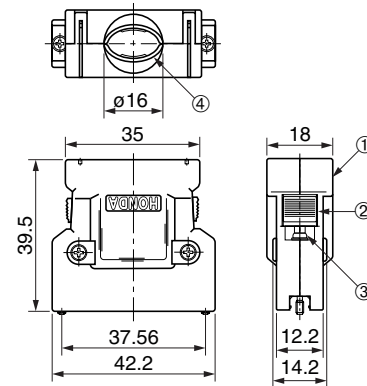PCR-LS28LA : Max outside diameter of cable is 14.5 mm.
PCR-LS36LA : Max outside diameter of cable is 15 mm.
PCR-LS50LA : Max outside diameter of cable is 16 mm.

PCR-LS20LA1

● **Components**

①	Housing
②	Lock hardware
③	Screw lock
④	Clamp

PCR-LS20LA

● **Components**

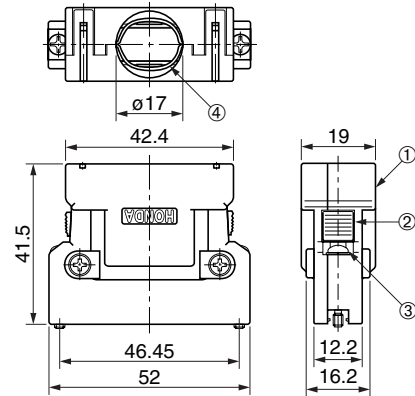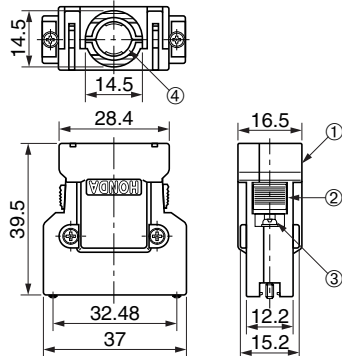|	
①	Housing
②	Lock hardware
③	Screw lock
④	Clamp

PCR-LS28LA

● **Components**

①	Housing
②	Lock hardware
③	Screw lock
④	Clamp
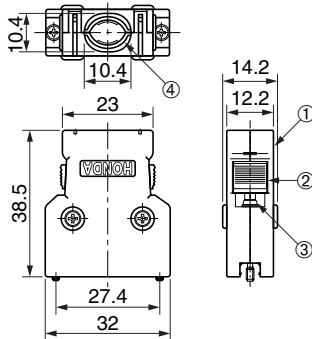
PCR-LS36LA

● **Components**

①	Housing
②	Lock hardware
③	Screw lock
④	Clamp

PCR-LS50LA

● **Components**

①	Housing
②	Lock hardware
③	Screw lock
④	Clamp

Mating connectors: PCR-S( )FS+

Through hole SMT Press-in IDC Soldering Crimping Wire wrapping Others

Vertical type plastic backshell (without screw lock)
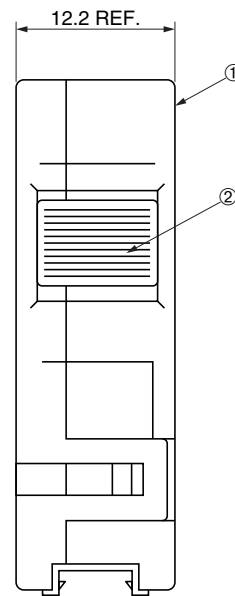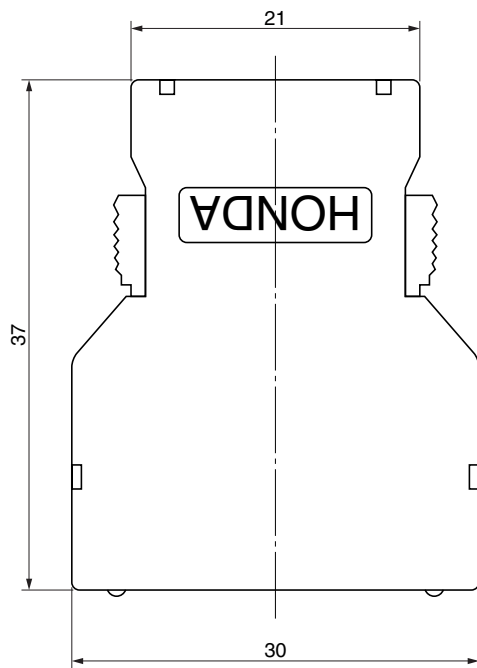## PCR-S20LA

RoHS

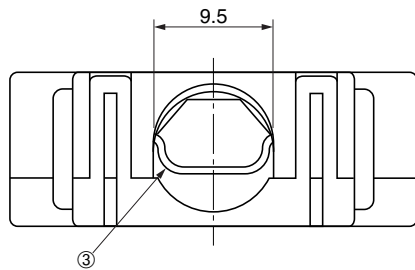● **Configuration of product Part No.**

PCR-S 20 L A
　　　　① 　② 　③

① Series name
② No. of contacts: 20
③ For use with specific cable sizes
　 A: Outside diameter of cable is 8.5 mm.

9.5

③

21

12.2 REF.

①

②

HONDA

37

30

● **Components**

①	Housing
②	Lock hardware
③	Clamp

Mating connectors: PCR-S20FS+

Others | Wire wrapping | Crimping | Soldering | IDC | Press-in | SMT | Through hole